Task 1 : Calculating a percentage of a quantity (multiples of 5%)
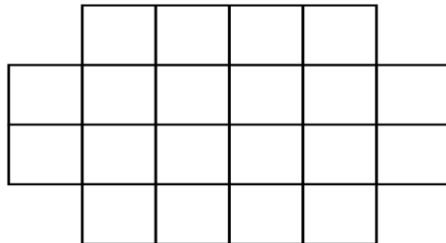
Task 2 : Increasing and decreasing by a given percentage (multiples of 5%)

Task 3 : Expressing 'a out of b' as a percentage

Task 4 : Calculating the percentage change

Puzzle : Mixture of **Tasks 1 to 4**

Help and Hints........

TASK 1

Find 5% of £420

$\div 2$ ⟲ 10% of £420 = £42
5% of £420 = £21 ⟳ $\div 2$

Find 20% of £420

$\times 2$ ⟲ 10% of £420 = £42
20% of £420 = £84 ⟳ $\times 2$

Find 15% of £420

$\qquad$ 10% of £420 = £42
$+$ $\quad$ 5% of £420 = £21 $\quad +$
$\qquad$ 15% of £420 = £63

TASK 2

Increase £740 by 5%
$\quad$ 5% of £740 = £37
Increasing by 5% £740 + £37 = £777

Decrease £320 by 15%
$\quad$ 15% of £320 = £48
Decreasing by 15% £320 - £48 = £272

TASK 3

Express 11 out of 20 as a percentage

Write as a fraction and then multiply/divide to make the denominator 100

$$\frac{11}{20} = \frac{55}{100} = 55\%$$

$\times 5$

TASK 4

Calculate the percentage decrease from £400 to £280

Work out the difference £400 - £280 = £120
Write the difference over the original as a fraction and change to a percentage

$$\frac{120}{400} = \frac{30}{100} = 30\%$$
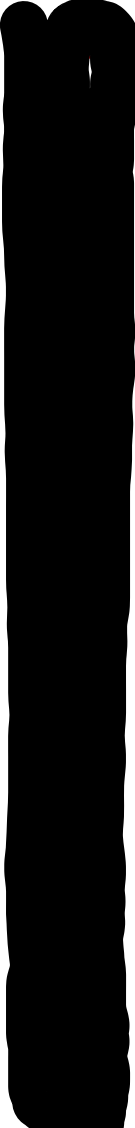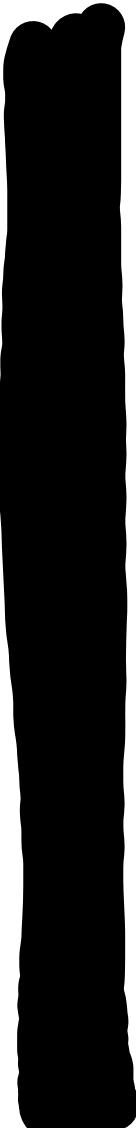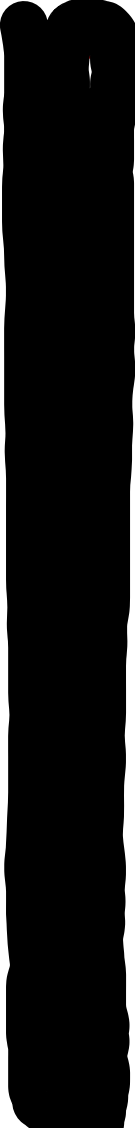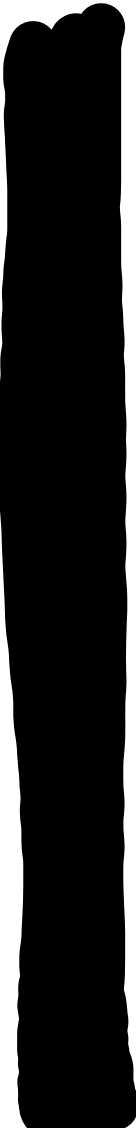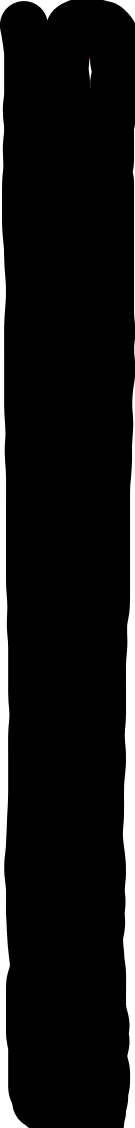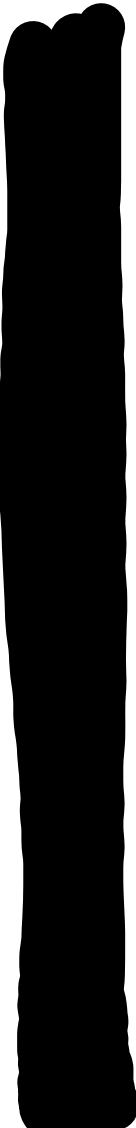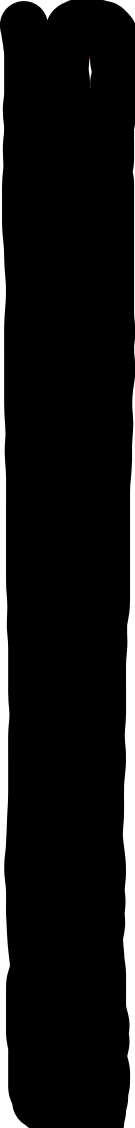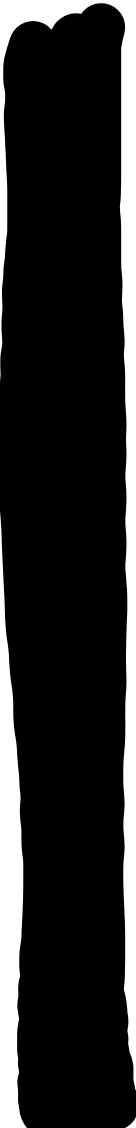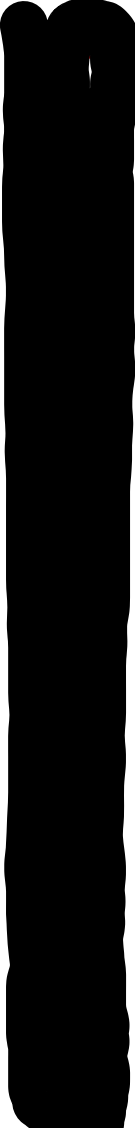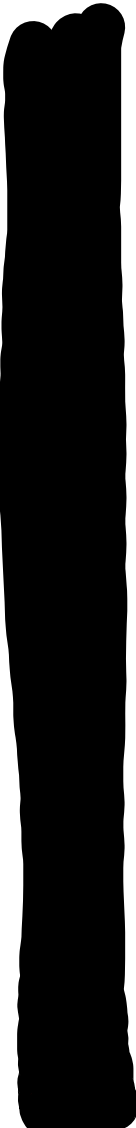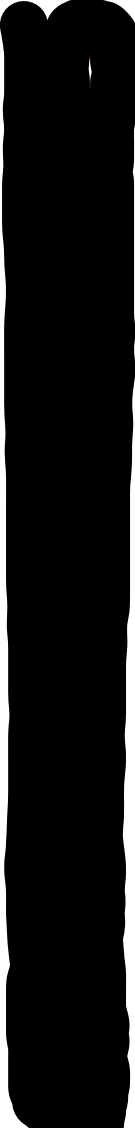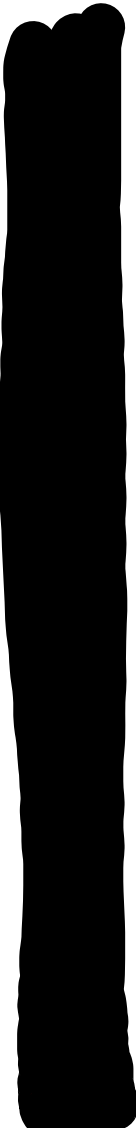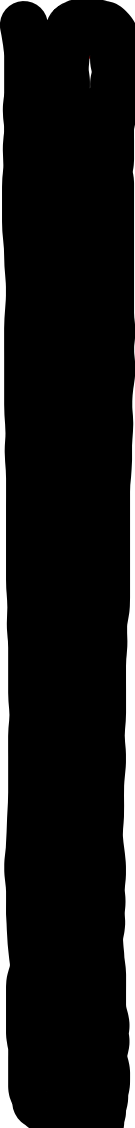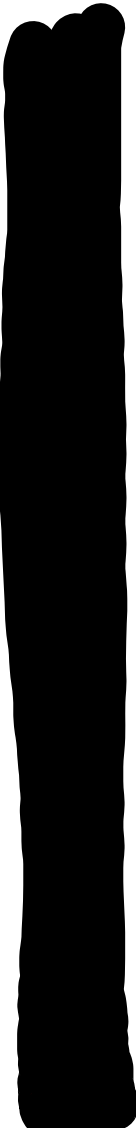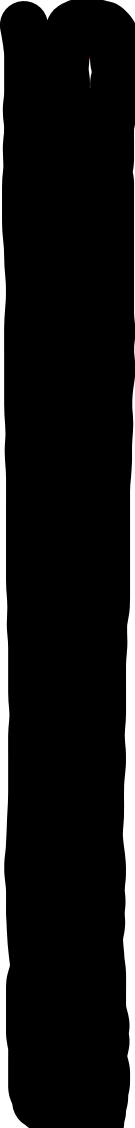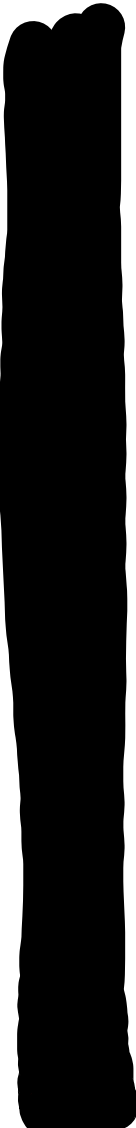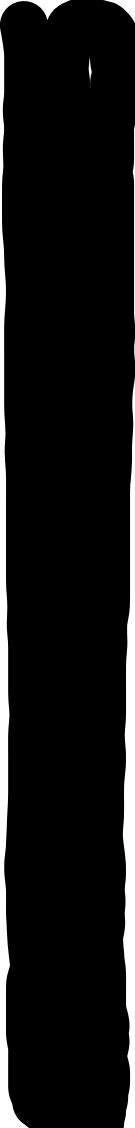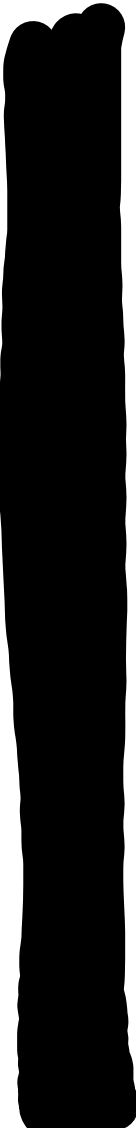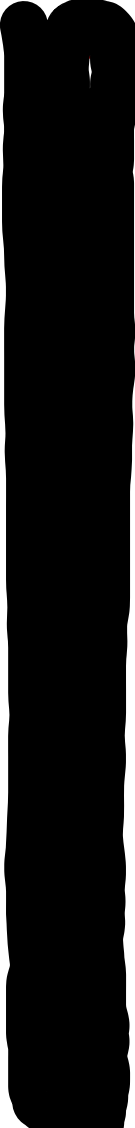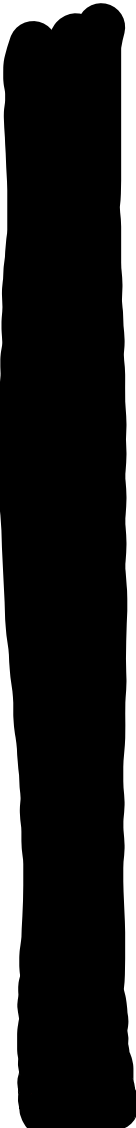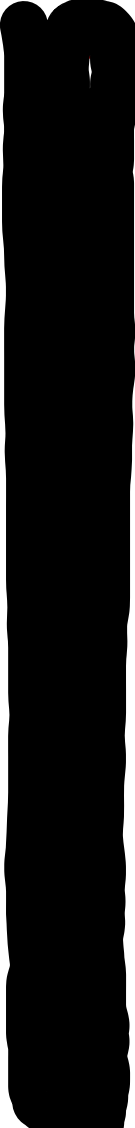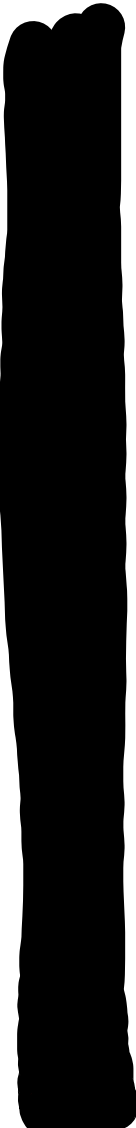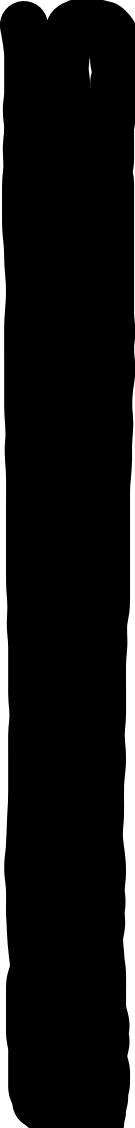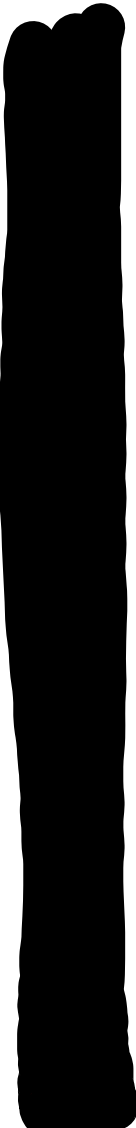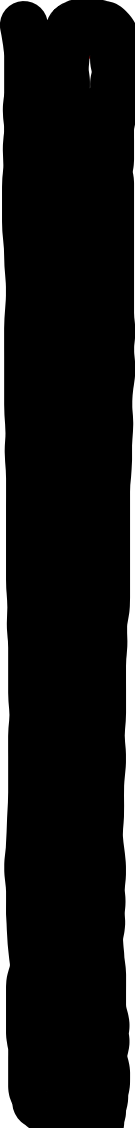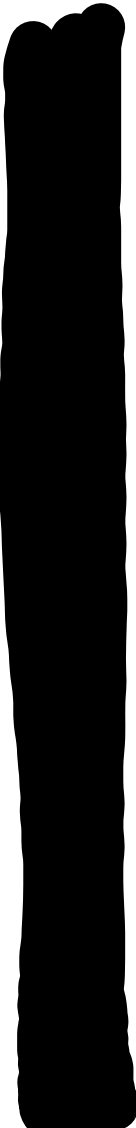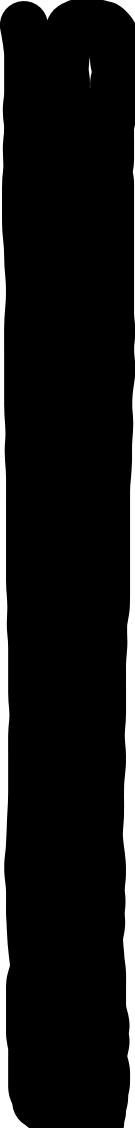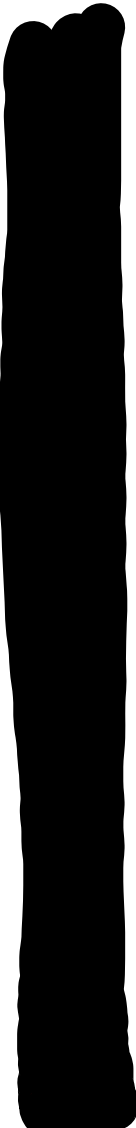
$\div 4$

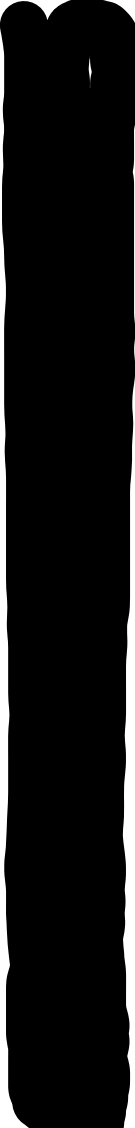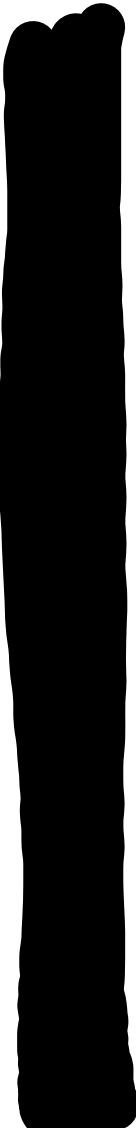# Percentages 6

TASK 1	TASK 2	TASK 3	TASK 4
1. Find 45% of £900	1. Decrease £400 by 10%	1. Express 15 out of 20 as a percentage	1. Calculate the percentage increase from £1000 to £1100
2. Find 45% of £380	2. Increase £1800 by 10%	2. Express 17 out of 25 as a percentage	2. Calculate the percentage decrease from £200 to £150
3. Find 10% of £980	3. Decrease £3060 by 10%	3. Express 37 out of 40 as a percentage	3. Calculate the percentage increase from £200 to £230
4. Find 25% of £140	4. Decrease £140 by 20%	4. Express 81 out of 200 as a percentage	4. Calculate the percentage decrease from £400 to £300
5. Find 20% of £260	5. Increase £100 by 10%	5. Express 5 out of 20 as a percentage	5. Calculate the percentage increase from £800 to £920
6. Find 40% of £360	6. Decrease £700 by 20%	6. Express 11 out of 25 as a percentage	6. Calculate the percentage increase from £800 to £880
7. Find 15% of £100	7. Increase £4240 by 15%	7. Express 3 out of 20 as a percentage	7. Calculate the percentage decrease from £400 to £320
8. Find 20% of £300	8. Decrease £2420 by 30%	8. Express 15 out of 20 as a percentage	8. Calculate the percentage decrease from £600 to £480
9. Find 45% of £1220	9. Decrease £3460 by 25%	9. Express 17 out of 25 as a percentage	9. Calculate the percentage increase from £400 to £420
10. Find 40% of £240	10. Increase £2860 by 40%	10. Express 41 out of 40 as a percentage	10. Calculate the percentage increase from £600 to £720
11. Find 40% of £1640	11. Decrease £2440 by 5%	11. Express 32 out of 200 as a percentage	11. Calculate the percentage increase from £1000 to £1100
12. Find 30% of £1020	12. Increase £700 by 40%	12. Express 7 out of 20 as a percentage	12. Calculate the percentage decrease from £800 to £640
13. Find 15% of £1460	13. Increase £200 by 25%	13. Express 13 out of 25 as a percentage	13. Calculate the percentage decrease from £200 to £160
14. Find 30% of £2340	14. Increase £4100 by 5%	14. Express 32 out of 40 as a percentage	14. Calculate the percentage decrease from £200 to £170
15. Find 35% of £1460	15. Decrease £4720 by 10%	15. Express 110 out of 200 as a percentage	15. Calculate the percentage decrease from £200 to £180

Percentages 6

TASK 1	TASK 2	TASK 3	TASK 4
1.	1.	1.	1.
2.	2.	2.	2.
3.	3.	3.	3.
4.	4.	4.	4.
5.	5.	5.	5.
6.	6.	6.	6.
7.	7.	7.	7.
8.	8.	8.	8.
9.	9.	9.	9.
10.	10.	10.	10.
11.	11.	11.	11.
12.	12.	12.	12.
13.	13.	13.	13.
14.	14.	14.	14.
15.	15.	15.	15.

Express 74 out of 200 as a percentage

+ 15%

Express 19 out of 20 as a percentage

+ 5%

77.5%

Increase £3180 by 10%

Decrease £380 by 10%

67.5%

Find 40% of £1820

£728

Increase £4100 by 20%

£408

76.5%

Calculate the percentage change from £200 to £240

- 15%

37%

Express 41 out of 40 as a percentage

Calculate the percentage change from £400 to £320

- 25%

Express 12 out of 25 as a percentage

£552

Decrease £3020 by 10%

£3498

Increase £1260 by 10%

£342

Express 9 out of 20 as a percentage

£3339

£555

Calculate the percentage change from £800 to £600

+ 20%

Find 25% of £1120

Increase £3180 by 5%

95%

Express 153 out of 200 as a percentage

Increase £460 by 20%

- 25%

Find 25% of £880

£280

- 20%

Decrease £740 by 25%

Calculate the percentage change from £400 to £460

45%

Calculate the percentage change from £400 to £420

£1430

Find 40% of £1020

48%

Express 155 out of 200 as a percentage

Calculate the percentage change from £1000 to £850

+ 10%

£220

£1386

Calculate the percentage change from £200 to £220

Calculate the percentage change from £800 to £600

£4920

£1248

Express 27 out of 40 as a percentage

102.5%

Decrease £2200 by 35%

£2718

Find 40% of £3120